Application of Southern California Edison Company (U 338-E) for Approval of its 2016 Rate Design Window Proposals.

A1609003 Application No. 16-09-____
(Filed September 1, 2016)

APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) FOR APPROVAL OF ITS 2016 RATE DESIGN WINDOW PROPOSALS

FADIA RAFEEDIE KHOURY
R. OLIVIA SAMAD
RUSSELL A. ARCHER

Attorneys for
SOUTHERN CALIFORNIA EDISON COMPANY
 2244 Walnut Grove Avenue
 Post Office Box 800
 Rosemead, California 91770
 Telephone: (626) 302-3477
 Facsimile: (626) 302-7740
 E-mail: Olivia.Samad@sce.com

Dated: **September 1, 2016**

LIMS-314-9774

APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) FOR APPROVAL OF ITS 2016 RATE DESIGN WINDOW PROPOSALS

Table Of Contents

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE

STATE OF CALIFORNIA

Application of Southern California Edison Company (U 338-E) for Approval of its 2016 Rate Design Window Proposals.	Application No. 16-09-____ (Filed September 1, 2016)

APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) FOR APPROVAL OF ITS 2016 RATE DESIGN WINDOW PROPOSALS

I.

INTRODUCTION

Pursuant to Articles 1 and 2 of the Rules of Practice and Procedure of the California Public Utilities Commission (Commission or CPUC), and in accordance with SCE's 2015 GRC Phase 2 Marginal Cost and Revenue Allocation Settlement Agreement (Phase 2 Settlement Agreement), which was approved in D.16-03-030, Southern California Edison Company (SCE) hereby respectfully files this application and requests that the Commission approve its 2016 Rate Design Window (RDW) proposals, as described herein. SCE's filing consists of the application and supporting testimony (preliminarily identified as Exhibit SCE-01).

II.

PROCEDURAL BACKGROUND

A.   Procedural History of TOU Rates

The Phase 2 Settlement Agreement, approved by the Commission in D.16-03-030 requires SCE to file its 2016 RDW Application no later than September 1, 2016. The Phase 2 Settlement Agreement states that in its 2016 RDW Application "SCE shall investigate and propose (if warranted) new default time-of-use [TOU] periods" and that "[t]he new TOU periods shall not result in modifications to the revenue allocations" established in the Phase 2 Settlement Agreement. Also, the Phase 2 Settlement Agreement contemplates that "[t]he new TOU periods shall reflect changes to the load curve net of RPS generation capacity output (the 'net load curve') …. As part of its 2016 RDW filing, SCE will include a new study of the time-dependence, and, at its option, the temperature-dependence, of its marginal subtransmission and distribution costs." This application is filed in compliance with these requirements. SCE proposes to implement the new TOU periods established in this proceeding for all non-residential customers on most TOU rate schedules (*i.e.*, rate schedules other than with a super-off-peak rate), beginning October 1, 2018.

Additionally, in June of 2012, the Commission opened Rulemaking (R.) 12-06-013 to consider potential changes to residential rate design (the Residential Rate OIR). In its decision resolving Phase 1 of the proceeding, the Commission stated its intent to implement default TOU for residential customers in 2019, and requires the IOUs to file their proposals in a 2018 RDW application. Accordingly, in this 2016 RDW proceeding, SCE is not proposing the implementation of default TOU rates for residential customers, but is instead proposing new TOU rate periods and seasons for non-residential customers. However, the cost bases underlying the marginal cost and revenue allocation studies established in this proceeding will be used to

inform SCE's 2018 RDW application,[1] which will address the rate design and implementation of default TOU rate(s) for residential customers.

In December of 2015, the Commission opened R.15-12-012 to establish a common methodology for the Investor-Owned Utilities (IOUs) to use in their individual applications proposing modifications to TOU periods (TOU OIR). Although no final decision has yet been issued, in this application, SCE has incorporated the findings addressed by the parties in the TOU OIR through the workshop process.

In June of 2017, SCE will file its 2018 GRC Phase 2 Application (2018 GRC). The TOU periods established in the instant proceeding will serve as the basis for the marginal cost and revenue allocation studies in SCE's 2018 GRC application.[2]

B.   **Procedural History of Default Critical Peak Pricing (CPP) Program**

The Phase 2 Settlement Agreement also allowed SCE to defer the implementation of default CPP for specified C&I and large agricultural customers until the date on which the new TOU periods (to be established in the instant application) become effective.

In 2003, SCE's initiated its original optional CPP program designed for large Commercial and Industrial (C&I) customers with demands greater than or equal to 200 kW. By October 2009, eligible customers, including residential, agricultural, and C&I customers with demands less than 200 kW could choose optional CPP rates. In D.09-08-028, among other things, the Commission ordered default CPP rates no later than January 1, 2012 for (a) eligible C&I customers with demands less than 200 kW, and (b) large Agricultural and Pumping (A&P) customers. SCE filed its proposal in compliance with D.09-08-028 in A.10-09-002. However, that application was subsequently dismissed without prejudice, and SCE was directed to include its dynamic pricing proposals in its 2012 GRC Phase 2 application.

---

[1]   Filing January 1, 2018.
[2]   Filing June 1, 2017. SCE's 2018 GRC Phase 2 Application may propose new revenue allocations and rate designs based on the new marginal costs and on the TOU periods ultimately adopted in this proceeding.

In its 2012 GRC Phase 2 application, SCE included a compliance proposal consistent with the Commission's order in D.09-08-028, and also included an alternate proposal that sought approval of mandatory TOU rates for small and medium C&I customers *but not* default CPP for those customers or for the large A&P customers. However, SCE proposed that if the Commission did not agree to modify D.09-08-028, and continued to require default CPP for small C&I and large A&P customers, then SCE proposed to first place eligible customers on mandatory TOU rates for a period of time not less than two years and, once the customers gained experience with TOU rates, they would be subject to default CPP rates.

SCE entered into a settlement of its 2012 GRC Phase 2 with several parties supporting the interests of small commercial customers, *i.e.*, those customers with demands of less than 20 kW, including ORA, the County of Los Angeles, the California Black Chamber of Commerce, the California Small Business Roundtable, and the California Small Business Association. That settlement agreement reflected an unopposed consensus that small C&I customers not be transitioned to mandatory TOU rates, and that CPP should remain opt-in. The Commission rejected the settlement agreement in D.13-03-031 as being inconsistent with the Commission's dynamic pricing directives to the state's two other major investor-owned utilities, and required SCE to begin its transition of small and medium C&I customers to mandatory TOU in 2014. Furthermore, the Commission directed SCE to include in its 2015 GRC Phase 2 application a plan to implement in 2016 default CPP for small and medium C&I and large A&P customers[3]

In SCE's 2015 GRC Phase 2, SCE proposed to transition these same groups of customers to default CPP rates in April 2017 to ensure that (1) all customers had at least two summers' experience being served on TOU rates, and (2) SCE would have adequate time to communicate

___

[3]   D.13-03-031, p. 23 ("We are not modifying this requirement [to default small and medium C&I customers to CPP] in today's decision, only the timing of the change."). Ordering Paragraph 7 of the same decision directed SCE to file a proposal to default large A&P customers to CPP on February 1, 2016.

rate impacts of the CPP migration sufficiently in advance of summer but not during the busy holiday season.

In SCE's 2015 GRC Phase 2 Marginal Cost and Revenue Allocation Settlement Agreement, all Settling Parties agreed that implementing default CPP for the small and medium C&I and large A&P customers should be delayed to coincide with the implementation of default TOU periods considered in this proceeding so as to avoid customer confusion and dissatisfaction. The Commission approved the Settlement Agreement in D.16-03-030.

In this application, SCE sets forth a Compliance Proposal to default eligible small- and medium-sized commercial customers and large A&P customers to CPP rates, in accordance with D.16-03-030 and prior Commission decisions. SCE also sets forth an Alternative Proposal that departs from the positions it expressed in the 2015 GRC Phase 2 in that SCE now requests approval for optional, not default, CPP for its small (less than 20 kW) commercial customers only, with default CPP for medium C&I and large A&P customers. SCE also includes proposed changes to the Real Time Pricing (RTP) tariff to help ensure that the CPP and RTP programs reflect the proposed changes to TOU periods and to enhance and simplify customer participation.

C. **Procedural History of Additional Proposed Tariff Changes**

In this application, SCE is also proposing changes to Schedule DA-CRS, *Direct Access Cost Responsibility Surcharge* and Schedule CCA-CRS, *Community Choice Aggregation Cost Responsibility Surcharge* for Direct Access (DA), Community Aggregation (CA), and Community Choice Aggregation (CCA), collectively known as Departing Load (DL), customers who are on California Alternate Rates for Energy (CARE) and medical baseline (MB) rates. On October 6, 2015, the Energy Division rejected, without prejudice, SCE's Advice Letter (AL) 3214-E requesting these modifications, and directed SCE to propose such changes in a rate-setting proceeding, such as an RDW application.[4]

---

[4] *See* October 6, 2015, Letter from Energy Division to SCE rejecting AL 3214-E without prejudice.

III.

SUMMARY OF SCE'S REQUESTS

In this application, SCE requests Commission approval of its 2016 RDW proposals, which include: (1) revising standard TOU periods and seasons, and implementing the revised standard TOU periods for all non-residential customers on rate schedules with standard TOU periods;[5] (2) implementing default[6] CPP for more than 500,000 small and medium commercial customers and 1,500 large agricultural customers or an alternate which would make CPP optional for small commercial customers only; (3) revising the real-time-pricing (RTP) rate; and (4) tariff changes, initially proposed by advice letter, to ensure that all departing load customers appropriately pay certain non-bypassable charges.

IV.

ORGANIZATION OF SCE'S TESTIMONY

SCE's testimony submitted in support of this application, which has been preliminarily marked for identification as Exhibit SCE-01, is comprised of seven sections, summarized as follows:

Chapter I of SCE-01 is introductory in nature and provides a brief summary of SCE's proposals and the impetus for this RDW Application;

Chapter II provides the background on SCE's proposals, including evolving system conditions, the TOU OIR, and "Guiding Principles" regarding TOU ratemaking;

---

[5] Rate schedules with "standard" TOU periods are those rate schedules whose TOU periods align with the TOU periods used for marginal cost and revenue allocation studies. The Commission and other parties at times refer to standard TOU periods as "default" TOU periods. Rate schedules with non-standard TOU periods include TOU-EV-3, TOU-EV-4, and TOU-GS-3-SOP, TOU-PA-2-SOP, TOU-PA-3-SOP (for non-residential customers) and TOU-D (for residential customers).

[6] "Default" means a rate schedule or an overlay to a rate schedule, such as CPP, that will automatically apply to a customer absent any affirmative action to opt-out of the default rate schedule by the customer.

Chapter III provides detailed information on the new marginal cost studies informing and underlying SCE's proposed TOU periods and seasons;

Chapter IV sets forth SCE's proposal for revised TOU periods and seasons;

Chapter V sets forth SCE's proposal for implementation of new TOU periods;

Chapter VI sets forth SCE's proposal for Dynamic Pricing Program changes; and

Chapter VII sets forth SCE's proposal for removing exemptions from the Cost Responsibility Surcharge DL customers on CARE and MB rates.

V.

EXECUTIVE SUMMARY

A. Revise Default TOU Periods and Seasons

California's ongoing efforts to de-carbonize its electricity grid has important consequences for the appropriate pricing of electricity. According to the California Independent System Operator (CAISO), the increase in intermittent, non-dispatchable energy from renewable generation sources is transforming the "traditional" electricity demand curve and causing conditions of "oversupply" in periods that have historically been hours of high demand, and a steep "ramp" in the hours when solar generation tapers off. Because the availability of this renewable energy is not always correlated to the times when California electric customers have the highest demand for electricity, the integration of increasing levels of renewable energy into the CAISO grid is changing the cost of electricity at different times of the day and at different times of the year. SCE's testimony examines the pricing impacts associated with changes in the system "net load," which the CAISO defines as load it must serve less production from utility-scale wind and solar generation, and proposes TOU periods that more closely group hours with similar costs. Providing consistent TOU prices that align with the underlying costs of service is a long-standing rate design principle.

In the testimony supporting this application, SCE engaged in comprehensive analyses of its time-differentiated marginal costs for energy (i.e., delivered electricity), generation capacity (i.e., the system's need to meet customers' demand for energy during both "peak" and "ramping" periods), and certain distribution system costs. The detailed results of those analyses are set forth in the supporting testimony. In summary, SCE determined that its marginal costs are now (and forecast to be) higher much later in the day than the costs reflected in the outdated rate structure underlying the existing TOU periods and that the current definition of summer and winter seasons should remain unchanged. Accordingly, SCE proposes the following TOU periods and seasons, to be implemented on October 1, 2018:

	Season	Existing	Proposed
On-Peak	Summer	Weekdays: 12:00 p.m. - 6:00 p.m.	Weekdays: 4:00 p.m. - 9:00 p.m.
Mid-Peak	Summer	Weekdays: 8:00 a.m. - 12:00 p.m.; 6:00 p.m. - 11:00 p.m.	Weekends: 4:00 p.m. - 9:00 p.m.
	Winter	Weekdays: 8:00 a.m. – 9:00 p.m.	Weekdays and Weekends: 4:00 p.m. - 9:00 p.m.
Off-Peak	Summer	Weekdays: 11:00 p.m. – 8:00 a.m. Weekends: All hours	Weekdays and Weekends: All hours except 4:00 p.m. – 9:00 p.m.
	Winter	Weekdays: 9:00 p.m. - 8:00 a.m. Weekends: All hours	Weekdays and Weekends: 9:00 p.m. - 8:00 a.m.
Super Off-Peak	Winter	N/A	Weekdays and Weekends: 8:00 a.m. – 4:00 p.m.

As noted above, the Phase 2 Settlement agreed that the TOU periods to be proposed in this proceeding would not modify the revenue allocation among rate groups adopted in D.16-03-030. Instead, rate levels adopted here for the revised proposed TOU periods will continue to collect the class-level revenues established pursuant to D.16-03-030.[7]

---

[7] The revenue allocations detailed in Paragraph 4.B of the Phase 2 Settlement were set based on existing TOU periods.

B. **Default 500,000 Eligible Small and Medium Commercial Customers and 1,500 Large Agricultural Customers to CPP, or Alternatively, Allow Small Commercial Customers to Continue to Opt In to CPP Instead**

The highest system marginal costs are often concentrated in a few hours throughout any given year and are driven by high temperature conditions, which generally occur during the summer. To more accurately assign these energy and capacity costs to the few days and hours in each year with highest system load conditions, the Commission has established dynamic pricing rates, such as the CPP and RTP programs. The 2015 GRC Phase 2 Settlement Agreement also agreed that the Commission-mandated transition to default small and medium commercial, and large agricultural, customers to CPP, originally proposed by SCE to occur in "one wave" in April 2017, should be delayed to coincide with the implementation of new default TOU periods to avoid customer confusion and dissatisfaction. In this application, SCE proposes to redefine the CPP event periods to align with its proposed TOU periods, redesign certain CPP program elements, and implement default CPP for eligible TOU-GS-1, TOU-GS-2, and TOU-PA-3 customers. In addition, based on recent developments and information concerning the cost and efficacy of default CPP, SCE sets forth an alternative proposal that requests optional (as opposed to default) CPP for its small commercial customers only. SCE proposes that these changes go into effect on October 1, 2018, to align with the new TOU periods established herein and to allow customers to adjust to the new rate structures before CPP events are called the following summer.

C. **Revise the RTP Rate**

In this application, SCE also requests authority to simplify and revise its RTP tariffs, in order to better align the price profiles of those rates to actual costs and to encourage greater customer participation. RTP tariffs provide customers with more accurate and granular energy price information, allowing customers to tailor energy usage and save on energy bills by more precisely avoiding high-cost period usage and conversely, increasing usage during low-cost

periods. In an effort to simplify the RTP rate structure and increase program enrollment, SCE proposes to reduce the current five-tier summer weekday prices into three day types. For the same reasons discussed above, SCE proposes that these changes go into effect on October 1, 2018.

D.   **Tariff Changes to Ensure That All Departing Load Customers Appropriately Pay Non-Passable Charges**

SCE's application also proposes the removal of Energy Crisis-era non-bypassable charge exemptions for DL customers served on CARE and MB rates. Statute and Commission precedent require that bundled service and DL customers be treated symmetrically, and prohibit cost-shifting from DL customers to bundled service customers. As currently structured, the existing non-bypassable charge exemptions for CARE and MB customers reflect protections from an Energy Crisis "surcharge" that bundled service customers are no longer shielded from, because that "surcharge" no longer exists. Removing these exemptions will ensure that bundled service and DL CARE and MB customers are treated equitably and fairly, and eliminate the current inequitable situation in which bundled service CARE and MB customers pay costs that DL CARE and MB customers do not. SCE will implement these tariff changes through the filing of an advice letter upon receiving a final decision in this proceeding.

VI.

STATUTORY & PROCEDURAL REQUIREMENTS

A.   **Statutory and Other Authority – Rule 2.1**

SCE submits this application pursuant to SCE's the Phase 2 Settlement Agreement, which was approved in D.16-03-030, Energy Division's October 6, 2015, Disposition reflecting without prejudice AL 3214-E, the Commission's Rules of Practice and Procedure, and the California Public Utilities Code.

Specifically, California Public Utilities Code Section 454(a) provides in pertinent part:

(a)   Except as provided in Section 455, no public
utility shall change any rate or so alter any
classification, contract, practice, or rule as to
reflect in any new rate, except upon a
showing before the commission and a
finding by the commission that the new rate
is justified.

Section 454(b) provides in pertinent part:

(b)   The commission may adopt rules it
considers reasonable and proper for each
class of public utility providing for the
nature of the showing required to be made in
support of proposed rate changes, the form
and manner of the presentation of the
showing, with or without a hearing, and the
procedure to be followed in the
consideration thereof.

SCE's request complies with Rules 1.5 through 1.11 and 1.13 of the Commission's Rules

of Practice and Procedure, which specify the procedures for, among other things, filing

documents, as well as Rules 2.1, 2.2, and 3.2.

Rule 2.1 of the Commission's Rules of Practice and Procedure requires that all

applications: (1) clearly and concisely state authority or relief sought; (2) cite the statutory or

other authority under which that relief is sought; and (3) be verified by the applicant.

The relief being sought is summarized in Sections III-V above, and is further described in

SCE's supporting testimony (Exhibit SCE-01) served concurrently with this application.

The statutory and other authority for this request includes, but is not limited to, California

Public Utilities Code Sections 451, 454, 454.3, 491, 701, 702, 728, 729, Article 2 and Rule 3.2 of

the Commission's Rules of Practice and Procedure, and prior decisions, orders, and resolutions

of this Commission.

This application has been verified by an SCE officer as provided in Rules 1.11 and 2.1.

The remainder of Rule 2.1, as well as Rules 2.2 and 3.2, set forth further requirements

that are addressed separately below.

B. **Legal Name and Correspondence – Rules 2.1(a) and 2.1(b)**

Pursuant to Rule 2.1 of the Commission's Rules of Practice and Procedure, the full legal name of the applicant is Southern California Edison Company (SCE). SCE is a corporation organized and existing under the laws of the State of California, and is primarily engaged in the business of generating, purchasing, transmitting, distributing and selling electric energy for light, heat and power in portions of central and southern California as a public utility subject to the jurisdiction of the California Public Utilities Commission. SCE's properties, which are located primarily within the State of California, consist mainly of hydroelectric and thermal electric generating plants, together with transmission and distribution lines and other property necessary in connection with its business.

SCE's principal place of business is 2244 Walnut Grove Avenue, Rosemead, California, and its post office address and telephone number are:

> Southern California Edison Company
> Post Office Box 800
> Rosemead, California 91770
> Telephone: (626) 302-1212

SCE's attorneys in this matter are Russell A. Archer and R. Olivia Samad. Correspondence or communications regarding this application should be addressed to:

Russell A. Archer
Senior Attorney
Southern California Edison Company
P.O. Box 800
2244 Walnut Grove Avenue
Rosemead, California 91770
Telephone: (626) 302-2865
Facsimile: (626) 302-6962
E-mail:Russell.Archer@sce.com

SCE Case Administration – Legal Admin
Southern California Edison Company
P.O. Box 800
2244 Walnut Grove Avenue
Rosemead, CA 91770
Telephone: 626-302-2810
Facsimile: 626-302-3119
e-mail: Legal.Admin@sce.com

C.   Proposed Categorization, Need for Hearings, Issues To Be Considered, Proposed Schedule, and Relevant Safety Considerations — Rule 2.1(c)

Commission Rule 2.1(c) requires that all applications shall state "the proposed category for the proceeding, the need for hearing, the issues to be considered, and a proposed schedule."

1.   Proposed Category

Rule 1.3(e) of the Commission's Rules of Practice and Procedure defines "ratesetting" proceedings as "proceedings in which the Commission sets or investigates rates for a specifically named utility (or utilities), or establishes a mechanism that in turn sets the rates for a specifically named utility (or utilities)." This application will include the setting and investigation of rates, and includes SCE's proposal for a "mechanism" that will influence the setting of rates in future applications. Therefore, for purposes of Rule 2.1, SCE proposes that this proceeding be categorized as ratesetting.

2.   Need for Hearings

The need for hearings in this proceeding, and the issues to be considered in such hearings, will depend in large part on the degree to which other parties contest SCE's requests. SCE's proposed procedural schedule below assumes evidentiary hearings will be held; however, the need for hearings will be determined by the assigned Administrative Law Judge(s).

3.   **Issues to be Considered, Including Relevant Safety Considerations**

In general, the issues to be considered are discussed in Sections III-V above and in more detail in SCE's supporting testimony served concurrently with this application. D.16-01-017 approved an amendment to Rule 2.1(c) of the Commission's Rules of Practice and Procedure (Title 20, Division 1, of the California Code of Regulations) to require all applications to identify all relevant safety considerations implicated by the application. One of SCE's core values is to protect public and employee safety. Although there are no direct safety issues implicated by the establishment of new TOU periods, the CAISO and Commission have indicated that Target Time Periods are the periods during which it would be helpful to the California power grid for customers to shift or to reduce their level of energy use. Establishing appropriate TOU periods and CPP and RTP rates could provide incentives to non-residential customers to take such actions resulting in less stress on the grid, potentially fewer outages, and therefore enhanced public safety to the extent it reduces interruption of electric service.

4.   **Procedural Schedule**

To allow the Commission to issue a timely final decision in this proceeding, SCE respectfully requests that the Commission process the present application according to the following schedule (which is more conservative than RDW schedules contemplated by the Commission's Rate Case Plan):

SCE files Application	9/1/2016
Protests / Responses to Application	30 days from the date the notice of the filing of the Application appears in the Daily Calendar [approximately 10/5/16]
Reply to Protests / Responses	10 days from the deadline for filing Protests / Responses [approximately 10/17/16]
Prehearing Conference	11/1/16
Intervenor Testimony Due	12/1/16
Rebuttal or Reply Testimony Due	1/16/17
Evidentiary Hearings (if necessary)	2/15-16/17
Concurrent Opening Briefs	3/15/17
Reply Briefs	4/17/17
Commission issues Proposed Decision	6/15/17
Comments to Proposed Decision	7/5/17
Replies to Comments to Proposed Decision	7/10/17
Commission issues Final Decision	8/1/17

D. **Organization and Qualification to Transact Business – Rule 2.2**

In compliance with Rule 2.2 of the Commission's Rules of Practice and Procedure,[8] a copy of SCE's Certificate of Restated Articles of Incorporation, effective on March 2, 2006, and presently in effect, certified by the California Secretary of State, was filed with the Commission on March 14, 2006, in connection with Application No. 06-03-020, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series D Preference Stock filed with the California Secretary of State on March 7, 2011, and presently in effect, certified by the California Secretary of State, was filed with the Commission on April 1, 2011, in connection with Application No. 11-04-001, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series E Preference Stock filed with the California Secretary of State on January 12, 2012, and a copy of SCE's Certificate of Increase of Authorized Shares of the Series E Preference Stock filed with the

---

[8]   Rule 2.2 requires the applicant, in this case SCE, to submit a copy of its organizing documents and evidence of its qualification to transact business in California, or to refer to that documentation if previously filed with the Commission.

California Secretary of State on January 31, 2012, and presently in effect, certified by the California Secretary of State, were filed with the Commission on March 5, 2012, in connection with Application No. 12-03-004, and are by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series F Preference Stock filed with the California Secretary of State on May 5, 2012, and presently in effect, certified by the California Secretary of State, was filed with the Commission on June 29, 2012, in connection with Application No. 12-06-017, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series G Preference Stock filed with the California Secretary of State on January 24, 2013, and presently in effect, certified by the California Secretary of State, was filed with the Commission on January 31, 2013, in connection with Application No. 13-01-016, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series H Preference Stock filed with the California Secretary of State on February 28, 2014, and presently in effect, certified by the California Secretary of State, was filed with the Commission on March 24, 2014, in connection with Application No. 14-03-013, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series J Preference Stock filed with the California Secretary of State on August 19, 2015, and presently in effect, certified by the California Secretary of State, was filed with the Commission on October 2, 2015, in connection with Application No. 15-10-001, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series K Preference Stock, filed with the California Secretary of State on March 2, 2016, and presently in effect, certified by the California Secretary of State, was filed with the Commission on April 1, 2016, in connection with Application No. 16-04-001, and is by reference made a part hereof.

Certain classes and series of SCE's capital stock are listed on a "national securities exchange" as defined in the Securities Exchange Act of 1934, and copies of SCE's latest Annual Report to Shareholders and its latest proxy statement sent to its stockholders has been filed with

the Commission with a letter of transmittal dated March 18, 2016, pursuant to Commission General Order Nos. 65-A and 104-A.

E. Balance Sheet and Income Statement – Rule 3.2.(a)(1)

Appendix A to this application contains copies of SCE's Balance Sheet and Income Statement for the period ending June 30, 2016, the most recent period available.

F. Statement of Presently Effective and Proposed Rates – Rules 3.2(a)(2) and 3.2(a)(3)

SCE's RDW proposals will not result in any changes to SCE's authorized revenue requirement, nor will it result in changes to the allocation of revenues among bundled service customer groups. Therefore, class level average rates for all bundled service customer groups will remain the same. However, if the CPUC adopts SCE's proposal in Section V.D above, bundled service customer rates would be slightly reduced, and DL CARE and MB rates would increase. The anticipated resulting change in revenue allocation is not significant at this time given the relatively low level of CCA adoption in SCE's service territory. If adoption of CCA increases, there may be a change in revenue allocation between rate groups.

The following table compares SCE's current average bundled service customer rates, by customer group, to proposed average rates if SCE's RDW proposals in this application are approved by the Commission:

	System			Bundled	
Customer Group	Current Revenues ($000)	Proposed Revenue Change ($000)	% Change over Current	Current Rates (¢/kWh)	Proposed Rates (¢/kWh)
Residential	5,080,722	0	0.00%	17.19	17.19
Lighting - Small and Medium Power	4,037,889	0	0.00%	15.45	15.45
Large Power	1,772,493	0	0.00%	10.73	10.73
Agricultural and Pumping	420,729	0	0.00%	11.74	11.74
Street and Area Lighting	124,461	0	0.00%	17.43	17.43
Standby	257,769	0	0.00%	8.98	8.98
Total	11,694,062	0	0.00%	14.89	14.89

The presently effective rates and the illustrative changes proposed to be made to those rates are listed in the table above. The proposed rates are illustrative and will be updated

consistent with the Commission's decision in this proceeding to reflect SCE's then-current authorized revenues when such rates are implemented. SCE's current rates and charges for electric service are in its electric tariffs and schedules on file with the Commission and available on SCE's website.[9] These tariffs and schedules are filed with and made effective by the Commission in its decisions, orders, resolutions, and approvals of advice letter filings pursuant to Commission General Order 96-A. SCE is not requesting a general revenue increase over one percent in this application.

G.   Description of SCE's Service Territory and Utility System – Rule 3.2(a)(4)

Because this application is not a general rate case application, this requirement is not applicable.

H.   Summary of Earnings – Rule 3.2.(a)(5)

In compliance with Rule 3.2(a)(5), Appendix B hereto contains a copy of SCE's summary of earnings, updated in December 2015, the most recent period available.

I.   Depreciation – Rule 3.2(a)(7)

Because this application is not a general rate case application, this requirement is not applicable.

J.   Capital Stock and Proxy Statement – Rule 3.2(a)(8)

Because this application is not a general rate case application, this requirement is not applicable.

---

[9]   SCE's current tariffs are available online at http://on.sce.com/25KXt0T.

K.   Statement Pursuant to Rule 3.2(a)(10)

Rule 3.2(a)(10) requires that the "application of electrical … corporations shall separately state whether or not the increase reflects and passes through to customers only increased costs to the corporation for the services or commodities furnished by it." SCE's application includes a request for the elimination of certain charges for DL MB and CARE customers. If that proposal is adopted, the Power Charge Indifference Amount (PCIA) rates will go up for those customers, and the Energy Resource Recovery Account (ERRA) rates will go down for bundled service customers. PCIA and ERRA rates reflect traditional "pass through" costs to customers.]

L.   Service of Notice – Rule 3.2(b), (c) and (d)

As required by California Public Utilities Code Section 454, a notice stating in general terms the proposed change will be provided to customers in their monthly bills. SCE has reviewed a draft of its proposed customer notice with the Commission's Public Advisor.

Pursuant to As required by Rule 3.2(b), a notice stating in general terms the proposed rate change will be mailed to the designated officials of the State of California, and the cities and counties affected by the rate increase proposed in this application as listed in Appendix C hereto.

Pursuant to Rule 3.2(c), notice will be published in a newspaper of general circulation in each county in SCE's service territory within which the rate changes would be effective. The cities and counties affected by the rate increase proposed in this application are shown in Appendix C hereto.

Finally, pursuant to Rule 3.2(d), notice will be furnished to customers affected by the potential rate changes proposed in this application by including such notice with the regular bills mailed to those customers and by electronically linking to such notice for customer that receive their bills electronically.

M. Index of Exhibits and Appendices to This Application

SCE's submissions in support of this application include the following, which are incorporated herein by reference:

Appendices to Application

Appendix A: Balance Sheet and Income Statement

Appendix B: Summary of Earnings

Appendix C: List of Cities and Counties

Exhibits to Application

Exhibit SCE-1: Testimony of Southern California Edison Company in Support of Its Application for Approval of its 2016 Rate Design Window Proposals

N. Service List

The official service list has not yet been established in this proceeding. SCE is serving this application and supporting testimony on the Commission's Office of Ratepayer Advocates, as well as the service lists established by the Commission for A.14-06-014 (SCE's 2015 GRC Phase 2); R.12-06-013 (the Residential Rate OIR); R.15-12-012 (the TOU OIR); and G.O. 96-B, A.14-05-024 et. al. and A.14-11-007 et. al. (Advice Letter 3214-E service lists).

VII.

CONCLUSION

SCE respectfully requests that the Commission approve this application as filed.

Respectfully submitted,

Fadia R. Khoury
R. Olivia Samad
Russell A. Archer

/s/ R. Olivia Samad
  By: R. Olivia Samad

Attorneys for
SOUTHERN CALIFORNIA EDISON COMPANY

> 2244 Walnut Grove Avenue
> Post Office Box 800
> Rosemead, California 91770
> Telephone: (626) 302-23477
> Facsimile: (626) 302-7740
> E-mail: Olivia.Samad@sce.com

September 1, 2016

VERIFICATION

I am an officer of the applicant corporation herein, and am authorized to make this verification on its behalf. I am informed and believe that the matters stated in the foregoing document are true.

I declare under penalty of perjury that the foregoing is true and correct.

Executed this **1ˢᵗ day of September, 2016**, at Rosemead, California

/s/	*Caroline Choi*
By:	Caroline Choi
	Senior Vice President, Regulatory Affairs

SOUTHERN CALIFORNIA EDISON COMPANY
2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770

Appendix A

Balance Sheet and Income Statement

SOUTHERN CALIFORNIA EDISON COMPANY

BALANCE SHEET
JUNE 30, 2016
CAPITALIZATION AND LIABILITIES
(in millions)

CAPITALIZATION:		
Common stock	$	2,168
Additional paid-in capital		656
Accumulated other comprehensive loss		(20)
Retained earnings		9,023
Common shareholder's equity		11,827
Preferred and preference stock		2,245
Long-term debt		10,024
Total capitalization		24,096
CURRENT LIABILITIES:		
Short-term debt		506
Current portion of long-term debt		479
Accounts payable		1,163
Accrued taxes		37
Customer deposits		257
Derivative liabilities		195
Regulatory liabilities		1,072
Other current liabilities		684
		4,393
DEFERRED CREDITS:		
Deferred income taxes and credits		9,509
Derivative liabilities		1,100
Pensions and benefits		1,292
Asset retirement obligations		2,588
Regulatory liabilities		6,017
Other deferred credits and other long-term liabilities		1,786
		22,292
	$	50,781

Appendix B

Summary of Earnings

Line No.	Item	Total
	Southern California Edision **Summary of Earnings** **2015 GRC Adopted Revenue Requirement** **Thousands of Dollars**	
1.	**Base Revenues**	5,182,297
2.	**Expenses:**	
3.	Operation & Maintenance	1,984,387
4.	Depreciation	1,532,289
5.	Taxes	442,687
6.	Revenue Credits	(147,491)
7.	Total Expenses	3,811,871
8.	**Net Operating Revenue**	1,370,425
9.	**Rate Base**	17,375,834
10.	**Rate of Return**	7.89%

Line No.	Item	Total
	Southern California Edision **Summary of Earnings** **2016 GRC Adopted Revenue Requirement** **Thousands of Dollars**	
1.	**Base Revenues**	5,385,537
2.	**Expenses:**	
3.	Operation & Maintenance	2,037,603
4.	Depreciation	1,546,128
5.	Taxes	474,761
6.	Revenue Credits	(149,196)
7.	Total Expenses	3,909,295
8.	**Net Operating Revenue**	1,476,242
9.	**Rate Base**	18,713,446
10.	**Rate of Return**	7.89%

	Southern California Edision **Summary of Earnings** **2017 GRC Adopted Revenue Requirement** **Thousands of Dollars**	
Line No.	Item	Total
1.	**Base Revenues**	5,657,371
2.	**Expenses:**	
3.	Operation & Maintenance	2,096,676
4.	Depreciation	1,575,482
5.	Taxes	542,386
6.	Revenue Credits	(148,941)
7.	Total Expenses	4,065,603
8.	**Net Operating Revenue**	1,591,768
9.	**Rate Base**	20,175,800
10.	**Rate of Return**	7.89%

Appendix C

List of Cities and Counties

Incorporated Cities and Counties Served by SCE

COUNTIES

Fresno	Kern	Madera	Riverside	Tuolumne
Imperial	Kings	Mono	San Bernardino	Tulare
Inyo	Los Angeles	Orange	Santa Barbara	Ventura

CITIES

Adelanto	Commerce	Hesperia	Los Alamitos	Port Hueneme	Simi Valley
Agoura Hills	Compton	Hidden Hills	Lynwood	Porterville	South El Monte
Alhambra	Corona	Highland	Malibu	Rancho Cucamonga	South Gate
Aliso Viejo	Costa Mesa	Huntington Beach	Mammoth Lakes	Rancho Mirage	South Pasadena
Apple Valley	Covina	Huntington Park	Manhattan Beach	Rancho Palos Verdes	Stanton
Arcadia	Cudahy	Indian Wells	Maywood		Tehachapi
Artesia	Culver City	Industry	McFarland	Rancho Santa Margarita	Temecula
Avalon	Cypress	Inglewood	Menifee	Redlands	Temple City
Baldwin Park	Delano	Irvine	Mission Viejo	Redondo Beach	Thousand Oaks
Barstow	Desert Hot Springs	Irwindale	Monrovia	Rialto	Torrance
Beaumont	Diamond Bar	Jurupa Valley	Montclair	Ridgecrest	Tulare
Bell	Downey	La Canada Flintridge	Montebello	Rolling Hills	Tustin
Bell Gardens	Duarte	La Habra	Monterey Park	Rolling Hills Estates	Twentynine Palms
Bellflower	Eastvale	La Habra Heights	Moorpark	Rosemead	Upland
Beverly Hills	El Monte	La Mirada	Moreno Valley	San Bernardino	Valencia
Big Bear Lake	El Segundo	La Palma	Murrieta	San Buenaventura	Victorville
Bishop	Exeter	La Puente	Newport Beach	San Dimas	Villa Park
Blythe	Farmersville	La Verne	Norco	San Fernando	Visalia
Bradbury	Fillmore	Laguna Beach	Norwalk	San Gabriel	Walnut
Brea	Fontana	Laguna Hills	Ojai	San Jacinto	West Covina
Buena Park	Fountain Valley	Laguna Niguel	Ontario	San Marino	West Hollywood
Calabasas	Fullerton	Laguna Woods	Orange	Santa Ana	Westlake Village
California City	Garden Grove	Lake Elsinore	Oxnard	Santa Barbara	Westminster
Calimesa	Gardena	Lake Forest	Palm Desert	Santa Clarita	Whittier
Camarillo	Glendora	Lakewood	Palm Springs	Santa Fe Springs	Wildomar
Canyon Lake	Goleta	Lancaster	Palmdale	Santa Monica	Woodlake (Three Rivers)
Carpinteria	Grand Terrace	Lawndale	Palos Verdes	Santa Paula	Yorba Linda
Carson	Hanford	Lindsay	Paramount	Seal Beach	Yucaipa
Cathedral City		Loma Linda	Perris	Sierra Madre	Yucca Valley
Cerritos	Hawaiian Gardens	Lomita	Pico Rivera	Signal Hill	
Chino	Hawthorne	Long Beach	Placentia		
Chino Hills	Hemet		Pomona		
Claremont	Hermosa Beach				

Last Updated: 7/18/2016

Appendix D

Notice of Availability

Application of Southern California Edison Company (U 338-E) for Approval of its 2016 Rate Design Window Proposals.	Application 16-09-0XX (Filed September 1, 2016)

NOTICE OF AVAILABILITY OF SOUTHERN CALIFORNIA EDISON (U 338-E) POSTING OF THE RATE DESIGN WINDOW TOOL

FADIA R. KHOURY
R. OLIVIA SAMAD
RUSSELL A. ARCHER

Attorneys for
SOUTHERN CALIFORNIA EDISON COMPANY

2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770
Telephone: (626) 302-3477
Facsimile: (626) 302-2865
E-mail: Russell.Archer@sce.com

Dated: **September 1, 2016**

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE

STATE OF CALIFORNIA

Application of Southern California Edison Company (U 338-E) for Approval of its 2016 Rate Design Window Proposals.	Application 16-09-0XX (Filed September 1, 2016)

NOTICE OF AVAILABILITY OF SOUTHERN CALIFORNIA EDISON (U 338-E) POSTING OF THE RATE DESIGN WINDOW TOOL

Southern California Edison Company ("SCE") hereby provides notice to the service list in Proceeding A.16-09-0XX that the following files are available for viewing and downloading on SCE's website:

1. Microsoft Excel® file providing the Rate Design Window Tool as filed in SCE's 2016 Application for Approval of its 2016 Rate Design Window Proposals. These files will be available via the following URL as of the date of service of this Notice, September 1, 2016:

   http://www3.sce.com/law/cpucproceedings.nsf/vwSearchProceedings?SearchView&Query=A.16-09-XXX&SearchMax=1000&Key1=1&Key2=25

The files are presented in Microsoft Excel (.xlsx) format and can be viewed online, printed, or saved to your hard drive. If you experience technical difficulties accessing the documents on SCE's website, please contact Lisa Tobias, SCE's CPUC regulatory paralegal, at (626) 302-3812 or Lisa.Tobias@sce.com.

If you are unable to access the documents via SCE's website, copies of them can be provided via secure transfer upon request to SCE Legal Administration, who can be reached at legal.admin@sce.com.

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE

STATE OF CALIFORNIA

Application of Southern California Edison Company (U 338-E) for Approval of its 2016 Rate Design Window Proposals.	Application 16-09-0XX (Filed September 1, 2016)

**NOTICE OF AVAILABILITY OF SOUTHERN CALIFORNIA EDISON (U 338-E)
POSTING OF THE RATE DESIGN WINDOW TOOL**

Southern California Edison Company ("SCE") hereby provides notice to the service list in Proceeding A.16-09-0XX that the following files are available for viewing and downloading on SCE's website:

1. Microsoft Excel® file providing the Rate Design Window Tool as filed in SCE's 2016 Application for Approval of its 2016 Rate Design Window Proposals. These files will be available via the following URL as of the date of service of this Notice, September 1, 2016:

   http://www3.sce.com/law/cpucproceedings.nsf/vwSearchProceedings?SearchView&Query=A.16-09-XXX&SearchMax=1000&Key1=1&Key2=25

The files are presented in Microsoft Excel (.xlsx) format and can be viewed online, printed, or saved to your hard drive. If you experience technical difficulties accessing the documents on SCE's website, please contact Lisa Tobias, SCE's CPUC regulatory paralegal, at (626) 302-3812 or Lisa.Tobias@sce.com.

If you are unable to access the documents via SCE's website, copies of them can be provided via secure transfer upon request to SCE Legal Administration, who can be reached at legal.admin@sce.com.

FADIA R. KHOURY
R. OLIVIA SAMAD
RUSSELL A. ARCHER

/s/ R. Olivia Samad
  By: R. Olivia Samad

Attorneys for
SOUTHERN CALIFORNIA EDISON COMPANY

        2244 Walnut Grove Avenue
        Post Office Box 800
        Rosemead, California 91770
        Telephone: (626) 302-3477
        Facsimile: (626) 302-2865
        E-mail: Olivia.Samad@sce.com

Dated: **September 1, 2016**

Appendix A

As a reference, SCE hereby attaches large-scale versions of the following "heat map" figures in Chapter III:
- Figure III-18 – SCE 2024 Forecast Average Hourly Total Marginal Costs
- Figure III-3 – SCE 2024 Forecast Average Hourly Marginal Energy Costs
- Figure III-8 – SCE 2024 Forecast Average Hourly Marginal Generation Capacity Costs (System Peak Only)
- Figure III-11 – SCE 2024 Forecast Average Hourly Marginal Generation Capacity Costs (System Peak + Flex)
- Figure III-17 – SCE 2024 Forecast Average Hourly Peak Component of Distribution Design Demand Marginal Costs

The following graphs can be recreated in the RDW Tool by using the following values, as described in Chapter III, in the User Input fields:

Input Field	Default Value
Year	2024
Marginal Energy Costs	On
Weighting of LOLE and Flex	60% LOLE; 40% Flex
Weighting of Flex Allocation in Hour 2/Hour 3%	30% Hour 2; 70% Hour 3
% of Variable Distribution Marginal Cost	60%
Generation Capacity Marginal Cost Value	$147.26/kW-Year
Distribution Capacity Marginal Cost Value	$126.41/kW-Year

Total Marginal Costs ($/kWh)

Weekdays

Columns: Hour Ending (PPT)
Rows: Months

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
January	0.051	0.049	0.048	0.048	0.049	0.053	0.069	0.078	0.055	0.050	0.048	0.046	0.044	0.045	0.047	0.057	0.099	0.169	0.115	0.086	0.074	0.067	0.063	0.056	**0.065**
February	0.050	0.048	0.047	0.048	0.049	0.052	0.064	0.060	0.053	0.049	0.047	0.047	0.046	0.047	0.047	0.051	0.084	0.162	0.133	0.086	0.072	0.067	0.061	0.055	**0.064**
March	0.049	0.046	0.046	0.046	0.046	0.049	0.057	0.054	0.049	0.042	0.039	0.034	0.029	0.033	0.041	0.044	0.065	0.131	0.155	0.103	0.078	0.070	0.062	0.053	**0.059**
April	0.048	0.045	0.045	0.045	0.046	0.048	0.055	0.047	0.042	0.036	0.033	0.032	0.030	0.031	0.039	0.041	0.046	0.102	0.170	0.087	0.080	0.067	0.059	0.052	**0.055**
May	0.050	0.046	0.045	0.045	0.046	0.049	0.050	0.046	0.042	0.039	0.039	0.039	0.039	0.040	0.043	0.045	0.050	0.106	0.156	0.088	0.087	0.073	0.062	0.054	**0.058**
June	0.052	0.047	0.046	0.046	0.047	0.049	0.048	0.046	0.043	0.044	0.044	0.045	0.043	0.047	0.051	0.059	0.066	0.112	0.157	0.215	0.194	0.097	0.074	0.059	**0.072**
July	0.058	0.051	0.048	0.047	0.048	0.050	0.053	0.050	0.049	0.050	0.054	0.057	0.058	0.068	0.077	0.086	0.102	0.203	0.218	0.145	0.134	0.103	0.084	0.068	**0.082**
August	0.060	0.052	0.049	0.049	0.049	0.054	0.058	0.053	0.052	0.053	0.055	0.057	0.059	0.070	0.080	0.104	0.146	0.235	0.249	0.511	0.248	0.101	0.084	0.070	**0.108**
September	0.056	0.050	0.048	0.048	0.048	0.052	0.065	0.057	0.052	0.051	0.052	0.054	0.058	0.064	0.076	0.104	0.185	0.381	1.844	1.225	0.374	0.099	0.079	0.066	**0.216**
October	0.051	0.048	0.047	0.047	0.047	0.051	0.060	0.062	0.050	0.045	0.045	0.045	0.046	0.049	0.052	0.061	0.089	0.180	0.173	0.111	0.084	0.071	0.064	0.056	**0.068**
November	0.050	0.048	0.048	0.048	0.048	0.051	0.060	0.055	0.050	0.048	0.048	0.047	0.047	0.048	0.051	0.079	0.157	0.200	0.099	0.082	0.072	0.065	0.061	0.056	**0.067**
December	0.053	0.049	0.048	0.049	0.049	0.054	0.063	0.063	0.055	0.051	0.050	0.050	0.049	0.049	0.051	0.054	0.122	0.255	0.107	0.092	0.080	0.072	0.067	0.058	**0.070**
Hourly Average	**0.052**	**0.048**	**0.047**	**0.047**	**0.048**	**0.051**	**0.059**	**0.056**	**0.049**	**0.047**	**0.046**	**0.046**	**0.046**	**0.049**	**0.055**	**0.065**	**0.101**	**0.186**	**0.298**	**0.236**	**0.131**	**0.079**	**0.068**	**0.058**	

Weekends and Holidays

Columns: Hour Ending (PPT)
Rows: Months

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
January	0.050	0.049	0.048	0.048	0.048	0.049	0.054	0.058	0.045	0.039	0.040	0.037	0.035	0.032	0.033	0.043	0.086	0.161	0.088	0.073	0.064	0.059	0.056	0.051	**0.056**
February	0.050	0.048	0.048	0.049	0.048	0.049	0.051	0.048	0.044	0.037	0.041	0.038	0.033	0.036	0.041	0.046	0.063	0.111	0.146	0.073	0.064	0.058	0.058	0.052	**0.056**
March	0.049	0.046	0.047	0.047	0.047	0.047	0.048	0.046	0.038	0.021	0.014	0.007	0.008	0.007	0.012	0.030	0.058	0.120	0.125	0.086	0.066	0.060	0.059	0.051	**0.047**
April	0.048	0.046	0.046	0.046	0.046	0.047	0.046	0.041	0.029	0.019	0.016	0.015	0.009	0.009	0.014	0.023	0.038	0.084	0.143	0.060	0.066	0.061	0.057	0.050	**0.044**
May	0.048	0.045	0.045	0.045	0.046	0.047	0.045	0.035	0.019	0.022	0.018	0.020	0.018	0.012	0.015	0.028	0.041	0.086	0.127	0.069	0.068	0.062	0.055	0.049	**0.044**
June	0.051	0.047	0.047	0.047	0.046	0.047	0.045	0.034	0.019	0.021	0.027	0.027	0.024	0.032	0.039	0.042	0.048	0.094	0.135	0.084	0.074	0.075	0.065	0.054	**0.051**
July	0.054	0.049	0.048	0.047	0.047	0.047	0.045	0.037	0.028	0.035	0.037	0.039	0.041	0.044	0.047	0.050	0.054	0.112	0.172	0.092	0.105	0.079	0.070	0.055	**0.060**
August	0.057	0.050	0.049	0.049	0.048	0.049	0.049	0.043	0.037	0.036	0.036	0.040	0.042	0.044	0.048	0.073	0.114	0.141	0.150	0.143	0.118	0.086	0.073	0.059	**0.068**
September	0.054	0.049	0.049	0.048	0.047	0.048	0.048	0.045	0.033	0.021	0.028	0.034	0.037	0.044	0.049	0.066	0.078	0.195	0.683	0.286	0.147	0.083	0.067	0.056	**0.096**
October	0.052	0.048	0.048	0.048	0.048	0.049	0.050	0.047	0.040	0.036	0.030	0.036	0.040	0.042	0.042	0.046	0.079	0.159	0.129	0.093	0.070	0.062	0.058	0.051	**0.058**
November	0.050	0.049	0.048	0.048	0.048	0.049	0.051	0.048	0.044	0.040	0.037	0.035	0.032	0.036	0.041	0.067	0.139	0.173	0.077	0.072	0.063	0.061	0.056	0.051	**0.059**
December	0.051	0.050	0.048	0.049	0.049	0.049	0.051	0.049	0.045	0.040	0.042	0.042	0.041	0.042	0.043	0.046	0.111	0.219	0.075	0.076	0.067	0.064	0.061	0.053	**0.061**
Hourly Average	**0.051**	**0.048**	**0.048**	**0.048**	**0.047**	**0.048**	**0.048**	**0.044**	**0.035**	**0.030**	**0.031**	**0.031**	**0.030**	**0.032**	**0.035**	**0.047**	**0.076**	**0.138**	**0.171**	**0.101**	**0.081**	**0.068**	**0.061**	**0.053**	

Marginal Energy Costs ($/kWh)

Weekdays

Columns: Hour Ending (PPT) / Rows: Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
January	0.049	0.048	0.047	0.047	0.048	0.050	0.058	0.062	0.049	0.046	0.045	0.044	0.041	0.042	0.043	0.046	0.057	0.081	0.077	0.071	0.063	0.060	0.055	0.051	**0.053**
February	0.048	0.047	0.047	0.047	0.048	0.050	0.059	0.053	0.047	0.044	0.043	0.043	0.042	0.042	0.043	0.044	0.049	0.067	0.076	0.073	0.065	0.060	0.054	0.050	**0.052**
March	0.047	0.046	0.046	0.046	0.046	0.047	0.052	0.049	0.045	0.040	0.037	0.032	0.027	0.030	0.038	0.040	0.042	0.050	0.062	0.079	0.069	0.061	0.056	0.049	**0.047**
April	0.046	0.044	0.044	0.044	0.045	0.047	0.051	0.044	0.040	0.035	0.032	0.030	0.028	0.029	0.036	0.038	0.040	0.044	0.050	0.069	0.071	0.058	0.052	0.047	**0.044**
May	0.046	0.045	0.044	0.044	0.045	0.047	0.047	0.043	0.039	0.037	0.037	0.037	0.036	0.037	0.038	0.040	0.041	0.045	0.047	0.063	0.071	0.062	0.054	0.048	**0.046**
June	0.047	0.045	0.045	0.045	0.046	0.047	0.046	0.042	0.039	0.038	0.038	0.039	0.038	0.039	0.040	0.042	0.044	0.050	0.048	0.065	0.074	0.070	0.057	0.049	**0.047**
July	0.049	0.046	0.045	0.045	0.045	0.047	0.046	0.043	0.040	0.041	0.042	0.044	0.046	0.049	0.053	0.056	0.060	0.073	0.059	0.096	0.079	0.070	0.060	0.053	**0.054**
August	0.049	0.047	0.046	0.046	0.046	0.048	0.050	0.045	0.043	0.042	0.042	0.043	0.044	0.046	0.049	0.053	0.060	0.074	0.065	0.092	0.080	0.067	0.059	0.053	**0.054**
September	0.049	0.047	0.046	0.046	0.046	0.049	0.055	0.049	0.044	0.042	0.042	0.042	0.043	0.045	0.048	0.050	0.057	0.073	0.090	0.106	0.074	0.062	0.057	0.051	**0.055**
October	0.048	0.047	0.046	0.046	0.046	0.048	0.054	0.054	0.045	0.042	0.041	0.041	0.042	0.043	0.045	0.046	0.048	0.062	0.073	0.079	0.067	0.060	0.056	0.050	**0.051**
November	0.049	0.047	0.047	0.047	0.047	0.049	0.055	0.050	0.046	0.044	0.044	0.043	0.043	0.044	0.045	0.048	0.061	0.089	0.076	0.068	0.063	0.059	0.054	0.050	**0.053**
December	0.050	0.048	0.048	0.048	0.048	0.050	0.057	0.057	0.049	0.047	0.046	0.046	0.045	0.046	0.048	0.046	0.060	0.084	0.077	0.073	0.066	0.062	0.059	0.052	**0.055**
Hourly Average	0.048	0.046	0.046	0.046	0.046	0.048	0.053	0.049	0.044	0.041	0.041	0.040	0.040	0.041	0.044	0.046	0.052	0.066	0.067	0.078	0.070	0.063	0.056	0.050	

Weekends and Holidays

Columns: Hour Ending (PPT) / Rows: Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
January	0.048	0.048	0.047	0.047	0.047	0.048	0.049	0.049	0.044	0.038	0.040	0.036	0.034	0.031	0.032	0.042	0.050	0.068	0.068	0.068	0.061	0.057	0.054	0.050	**0.048**
February	0.048	0.048	0.047	0.048	0.048	0.048	0.050	0.047	0.043	0.036	0.040	0.037	0.033	0.036	0.040	0.042	0.046	0.056	0.065	0.068	0.060	0.056	0.056	0.051	**0.048**
March	0.047	0.046	0.046	0.046	0.046	0.046	0.047	0.045	0.038	0.020	0.013	0.006	0.008	0.007	0.011	0.030	0.037	0.046	0.056	0.068	0.063	0.059	0.057	0.050	**0.039**
April	0.046	0.045	0.045	0.045	0.045	0.046	0.045	0.040	0.028	0.019	0.015	0.015	0.008	0.008	0.013	0.017	0.027	0.042	0.046	0.058	0.062	0.059	0.055	0.049	**0.037**
May	0.046	0.045	0.045	0.045	0.045	0.046	0.044	0.034	0.018	0.021	0.017	0.019	0.018	0.010	0.014	0.027	0.036	0.041	0.044	0.055	0.063	0.058	0.053	0.048	**0.037**
June	0.047	0.045	0.045	0.045	0.045	0.046	0.044	0.033	0.019	0.020	0.027	0.026	0.024	0.031	0.037	0.039	0.041	0.045	0.046	0.057	0.064	0.065	0.058	0.049	**0.042**
July	0.049	0.047	0.046	0.045	0.045	0.045	0.044	0.036	0.027	0.034	0.036	0.038	0.039	0.041	0.044	0.045	0.045	0.049	0.052	0.068	0.068	0.065	0.058	0.050	**0.046**
August	0.049	0.047	0.047	0.047	0.047	0.047	0.047	0.042	0.036	0.034	0.034	0.038	0.039	0.041	0.043	0.044	0.046	0.052	0.054	0.071	0.073	0.066	0.061	0.051	**0.048**
September	0.048	0.047	0.047	0.046	0.046	0.047	0.047	0.044	0.032	0.020	0.027	0.032	0.034	0.040	0.042	0.044	0.047	0.056	0.066	0.084	0.070	0.061	0.057	0.050	**0.047**
October	0.048	0.047	0.047	0.047	0.047	0.048	0.049	0.047	0.040	0.035	0.029	0.035	0.039	0.041	0.041	0.043	0.046	0.058	0.071	0.082	0.064	0.058	0.055	0.049	**0.049**
November	0.049	0.048	0.048	0.048	0.048	0.048	0.050	0.047	0.043	0.040	0.037	0.035	0.032	0.035	0.040	0.045	0.054	0.081	0.071	0.066	0.060	0.058	0.054	0.050	**0.049**
December	0.051	0.049	0.048	0.048	0.048	0.048	0.050	0.049	0.044	0.039	0.042	0.042	0.041	0.041	0.042	0.045	0.054	0.076	0.069	0.070	0.062	0.062	0.057	0.051	**0.051**
Hourly Average	0.048	0.047	0.046	0.046	0.047	0.047	0.047	0.043	0.034	0.030	0.030	0.030	0.029	0.030	0.033	0.039	0.044	0.056	0.059	0.068	0.064	0.060	0.056	0.050	

Marginal Generation Capacity Costs - LOLE Only ($/kWh)

Weekdays

Rows: Months

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	0.000
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.002	0.004	0.007	0.010	0.165	0.164	0.009	-	-	0.015
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.000	0.000	0.011	0.031	0.002	-	-	0.002
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.003	0.008	0.007	0.054	0.621	0.214	0.004	-	-	0.038
September	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.003	0.023	0.107	0.249	2.665	1.789	0.441	0.019	0.000	-	0.221
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.004	0.011	0.002	0.000	0.000	0.000	-	0.001
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hourly Average	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.002	0.010	0.022	0.228	0.216	0.071	0.003	0.000	-	

Weekends and Holidays

Rows: Months

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	0.000
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	-	-	0.000
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.000	0.000	0.015	0.035	0.002	-	-	0.002
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.000	0.008	0.081	0.035	0.001	-	-	0.005
September	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.002	0.003	0.017	0.739	0.256	0.084	0.005	0.000	-	0.046
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	0.000
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hourly Average	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.000	0.001	0.062	0.029	0.013	0.001	0.000	-	

Total Marginal Generation Capacity Costs -- LOLE and Flex ($/kWh)

Weekdays

Columns: Hour Ending (PPT)
Rows: Months

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
January	-	-	-	-	-	-	0.004	0.009	-	-	-	-	-	-	-	0.006	0.037	0.064	0.020	-	-	-	-	-	0.006
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.001	0.030	0.081	0.042	-	-	-	-	-	0.006
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.017	0.073	0.083	0.015	-	-	-	-	0.008
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.047	0.112	0.008	-	-	-	-	-	0.007
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.001	0.041	0.096	0.010	0.000	-	-	-	-	0.006
June	-	-	-	-	-	-	-	-	-	0.001	0.002	-	-	-	0.000	0.001	0.002	0.034	0.088	0.129	0.098	0.005	-	-	0.015
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.042	0.099	0.007	0.019	0.001	-	-	0.007
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.002	0.016	0.067	0.120	0.373	0.128	0.002	-	0.030
September	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.002	0.014	0.069	0.207	1.710	1.073	0.265	0.012	0.000	-	0.140
October	-	-	-	-	-	-	0.001	0.002	-	-	-	-	-	-	0.000	0.000	0.020	0.079	0.076	0.001	0.000	0.000	0.000	-	0.007
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.025	0.087	0.066	-	-	-	-	-	0.007
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.055	0.131	0.005	-	-	-	-	-	0.008
Hourly Average	-	-	-	-	-	-	0.000	0.001	-	0.000	0.000	-	-	0.000	0.000	0.004	0.028	0.078	0.204	0.135	0.042	0.002	0.000	-	

Weekends and Holidays

Columns: Hour Ending (PPT)
Rows: Months

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
January	-	-	-	-	-	-	0.003	0.008	-	-	-	-	-	-	-	-	0.035	0.088	0.016	-	-	-	-	-	0.006
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	0.015	0.051	0.075	-	-	-	-	-	0.006
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.020	0.072	0.067	0.014	-	-	-	-	0.007
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.005	0.011	0.041	0.095	-	-	-	-	-	0.006
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.004	0.042	0.082	0.010	0.000	-	-	-	0.006
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.004	0.039	0.077	0.018	0.001	0.000	-	-	0.006
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.044	0.102	0.009	0.021	0.001	-	-	0.007
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.018	0.051	0.039	0.041	0.048	0.021	0.000	-	0.009
September	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.001	0.002	0.063	0.567	0.153	0.050	0.003	0.000	-	0.035
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	0.029	0.089	0.050	0.000	0.000	0.000	0.000	-	0.007
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.020	0.083	0.082	-	-	-	-	-	-	0.008
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.055	0.129	-	-	-	-	-	-	0.008
Hourly Average	-	-	-	-	-	-	0.000	0.001	-	-	-	-	-	-	0.000	0.000	0.004	0.026	0.065	0.098	0.021	0.008	0.000	0.000	-	

Total Marginal Distribution Costs ($/kWh)

Weekdays

Columns: Hour Ending (PPT) Rows: Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
January	0.002	0.001	0.001	0.001	0.001	0.003	0.007	0.006	0.006	0.005	0.003	0.002	0.003	0.003	0.004	0.006	0.006	0.024	0.018	0.015	0.010	0.007	0.008	0.005	0.006
February	0.002	0.001	0.001	0.001	0.001	0.002	0.006	0.007	0.006	0.005	0.004	0.004	0.004	0.005	0.004	0.005	0.006	0.014	0.015	0.013	0.008	0.007	0.007	0.005	0.006
March	0.002	0.000	0.001	0.001	0.000	0.002	0.005	0.005	0.004	0.002	0.003	0.002	0.002	0.002	0.003	0.004	0.006	0.008	0.010	0.010	0.010	0.008	0.006	0.004	0.004
April	0.002	0.001	0.001	0.001	0.001	0.001	0.004	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.006	0.011	0.008	0.010	0.009	0.009	0.007	0.005	0.004
May	0.004	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.004	0.006	0.009	0.020	0.013	0.015	0.016	0.012	0.008	0.006	0.006
June	0.005	0.002	0.001	0.001	0.002	0.001	0.002	0.003	0.003	0.005	0.004	0.006	0.004	0.008	0.010	0.016	0.020	0.028	0.020	0.021	0.022	0.021	0.017	0.010	0.010
July	0.009	0.005	0.003	0.002	0.003	0.004	0.007	0.007	0.009	0.009	0.012	0.013	0.012	0.019	0.025	0.029	0.043	0.088	0.060	0.043	0.036	0.032	0.024	0.015	0.021
August	0.011	0.005	0.003	0.003	0.003	0.006	0.009	0.008	0.009	0.011	0.013	0.014	0.016	0.024	0.031	0.049	0.071	0.095	0.065	0.047	0.040	0.032	0.025	0.017	0.025
September	0.007	0.003	0.002	0.002	0.002	0.004	0.010	0.008	0.008	0.009	0.010	0.011	0.015	0.019	0.026	0.040	0.059	0.101	0.044	0.046	0.036	0.025	0.021	0.015	0.022
October	0.003	0.001	0.000	0.001	0.001	0.003	0.005	0.005	0.005	0.004	0.004	0.004	0.003	0.006	0.008	0.015	0.022	0.039	0.024	0.030	0.017	0.011	0.008	0.006	0.009
November	0.002	0.001	0.001	0.001	0.001	0.002	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.006	0.009	0.045	0.024	0.014	0.009	0.007	0.007	0.005	0.007
December	0.003	0.001	0.001	0.001	0.001	0.003	0.006	0.006	0.006	0.005	0.004	0.004	0.003	0.004	0.005	0.006	0.007	0.041	0.025	0.019	0.013	0.009	0.008	0.006	0.008
Hourly Average	0.004	0.002	0.001	0.001	0.001	0.003	0.006	0.006	0.005	0.005	0.005	0.006	0.006	0.008	0.011	0.015	0.022	0.043	0.027	0.024	0.019	0.015	0.012	0.008	

Weekends and Holidays

Columns: Hour Ending (PPT) Rows: Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average
January	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.005	0.004	0.003	0.002	0.001	0.002
February	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.004	0.006	0.005	0.004	0.002	0.002	0.001	0.002
March	0.002	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.004	0.003	0.002	0.002	0.002	0.001
April	0.002	0.001	0.001	0.000	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.001
May	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.002	0.003	0.005	0.004	0.003	0.001	0.001
June	0.004	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.002	0.003	0.003	0.010	0.011	0.009	0.009	0.010	0.008	0.004	0.004
July	0.005	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.005	0.008	0.019	0.018	0.015	0.016	0.013	0.012	0.005	0.006
August	0.008	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.003	0.003	0.006	0.011	0.017	0.051	0.054	0.024	0.025	0.020	0.012	0.007	0.011
September	0.006	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.007	0.014	0.021	0.030	0.076	0.050	0.049	0.027	0.020	0.010	0.006	0.014
October	0.004	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.011	0.008	0.012	0.006	0.004	0.003	0.001	0.003
November	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.003	0.010	0.006	0.005	0.002	0.003	0.002	0.001	0.002
December	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.002	0.014	0.006	0.006	0.004	0.003	0.003	0.002	0.002
Hourly Average	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.006	0.017	0.014	0.012	0.009	0.007	0.005	0.003	